

ABSTRACT

A method of converting a source pixel data of a first format for a display of a second format having a plurality of three-color pixel elements is disclosed. The method comprises determining implied sample areas for each data point of each color in the source pixel data of the first format. The resample areas for each emitter of each color in the display is also determined. A set of fractions for each resample area is formed. The denominators are a function of the resample area and the numerators are the function of an area of each of the implied sample areas that at least partially overlaps the resample areas. The data values for each implied sample area is multiplied by its respective fraction and all products are added together to obtain luminance values for each resample area.